RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	/0/588,030
Source:	IFWP
Date Processed by STIC:	8//0/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial	Number: 10/588,030	CRF Edit Date: 8/10/06 Edited by: 1
	Realigned nucleic acid/amino acid numbers/text text "wrapped" to the next line	in cases where the sequence
	Corrected the SEQ ID NO. Sequence numbers e	edited were:
	Inserted or corrected a nucleic number at the en NO's edited:	d of a nucleic line. SEQ ID
	Deleted: invalid beginning/end-of-file text;	page numbers
	Inserted mandatory headings/numeric identifier	s, specifically:
	Moved responses to same line as heading/numer	ic identifier, specifically:
	Other:	



IFWP

RAW SEQUENCE LISTING DATE: 08/10/2006
PATENT APPLICATION: US/10/588,030 TIME: 20:03:19

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08102006\J588030.raw

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      5 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated with
             Phosphate Regulating Endopeptidase Homolog (PHEX)
      8 <130> FILE REFERENCE: 004974.01208
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/588,030
C--> 10 <141> CURRENT FILING DATE: 2006-08-01
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     12 <170> SOFTWARE: PatentIn version 3.2
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    23 gatcctcttt ctagtgagtc aaggtctctt aagtctccaa gctaaacagg agtactgcct
                                                                            240
    24 gaagccagaa tgcatcgaag cggctgctgc catcttaagt aaagtaaatc tgtctgtgga
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     25 teettgtgat aatttettee ggttegettg tgatggetgg ataageaata atecaattee
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    26 cgaagatatg ccaagctatg gggtttatcc ttggctgaga cataatgttg acctcaagtt
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    45 agttggctat ccagagttta taatgaatga tactcatgtt aatgaagacc tcaaagctat
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1740

1800

RAW SEQUENCE LISTING DATE: 08/10/2006 PATENT APPLICATION: US/10/588,030 TIME: 20:03:19

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Output Set: N:\CRF4\08102006\J588030.raw

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58 caattccacq atgaacagag gcatggactc ctgccgactc tggtagctgg gacgctggtt
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77 Ala Lys Gln Glu Tyr Cys Leu Lys Pro Glu Cys Ile Glu Ala Ala Ala
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79 Ala Ile Leu Ser Lys Val Asn Leu Ser Val Asp Pro Cys Asp Asn Phe
81 Phe Arg Phe Ala Cys Asp Gly Trp Ile Ser Asn Asn Pro Ile Pro Glu
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83 Asp Met Pro Ser Tyr Gly Val Tyr Pro Trp Leu Arg His Asn Val Asp
85 Leu Lys Leu Lys Glu Leu Leu Glu Lys Ser Ile Ser Arg Arg Asp
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87 Thr Glu Ala Ile Gln Lys Ala Lys Ile Leu Tyr Ser Ser Cys Met Asn
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89 Glu Lys Ala Ile Glu Lys Ala Asp Ala Lys Pro Leu His Ile Leu
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                       150
91 Arg His Ser Pro Phe Arg Trp Pro Val Leu Glu Ser Asn Ile Gly Pro
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93 Glu Gly Val Trp Ser Glu Arg Lys Phe Ser Leu Leu Gln Thr Leu Ala
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RAW SEQUENCE LISTING DATE: 08/10/2006
PATENT APPLICATION: US/10/588,030 TIME: 20:03:19

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Output Set: N:\CRF4\08102006\J588030.raw

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	Ser	Val	T.en		T.eu	Glu	Tle	Lvs		Δla	Glu	Tle	Met	Ile	Pro	His
106			275	_				280					285			
107 108	Glu	Asn 290	Arg	Thr	Ser	Glu	Ala 295	Met	Tyr	Asn	Lys	Met 300	Asn	Ile	Ser	Glu
	Leu		Ala	Met	Ile	Pro		Phe	qaA	Trp	Leu		Tyr	Ile	Lys	Lys
	305					310			-	_	315	-	•		-	320
111	Val	Ile	Asp	Thr	Arg	Leu	Tyr	Pro	His	Leu	Lys	Asp	Ile	Ser	${\tt Pro}$	Ser
112					325					330					335	
	Glu	Asn	Val		Val	Arg	Val	Pro		Tyr	Phe	Lys	Asp	Leu	Phe	Arg
114		_	~-3	340		_	_	_	345			_	_	350		_
	тте	Leu		Ser	GIU	Arg	ьуs		Thr	IIe	Ala	Asn		Leu	Val	Trp
116	7. ~~~	Mot	355	Ф	C0~	7 ~~	т10	360 Bro	7 an	T 011	C02	7/ ***	365	Phe	Cln	Пата
118	Arg	370	vai	ıyı	ser	Arg	375	PIO	ASII	neu	ser	380	Arg	PHE	GIII	TAT
	Ara		Leu	Glu	Phe	Ser		Val	Tle	Gln	Glv		Thr	Thr	Len	Len
	385	F				390	5				395					400
		Gln	Trp	Asp	Lys	Cys	Val	Asn	Phe	Ile		Ser	Ala	Leu	Pro	
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126		-	435	-	~ 1		~1	440		_		~3	445	_	_	_0
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	465	цуз	GIU	nys	лта	470	Αια	Vai	neu	лια	475	vai	GIY	ı yı.	FLO	480
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133	Phe	Ser	Glu	Ala	Asp	Tyr	Phe	Gly	Asn	Val	Leu	Gln	Thr	Arg		Tyr
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139	mh w	530	C1 -	т1.	7	Db -	535	77-	al	~ 1	T	540	T	D	Dh a	Dh.a
	545	ASII	GIII		Arg				-			GIII		Pro	Pne	Pne E60
		Gl v	Thr											Ile	Glv	770 100
143	11p	Cry	1111	J_u	565	110	A.y	OCI	ь¢и	570	- y -	Cry	лта	-1C	575	VUI
	Ile	Val	Glv	His		Phe	Thr	His	Glv		Asp	Asn	Asn	Gly		Lys
145			- 4	580					585		- 1-			590	ر	
146	Tyr	Asp	Lys	Asn	Gly	Asn	Leu	Asp		Trp	Trp	Ser	Thr	Glu	Ser	Glu
147			595					600					605			
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RAW SEQUENCE LISTING DATE: 08/10/2006 PATENT APPLICATION: US/10/588,030 TIME: 20:03:19

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08102006\J588030.raw

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	Leu 1	Pro	Glv		Thr	Phe	Thr	Asn		Gln	Leu	Phe	Phe		Ser	Tvr		
157			675					680					685			- 1 -		
	Ala	His		Ara	Cvs	Asn	Ser		Ara	Pro	Glu	Δla		Ara	Glu	Gln		
159		690		•••	O _I O		695	-1-	5		014	700		3				
	Val		Tle	Glv	Δla	His		Pro	Pro	Gln	Phe		Val	Asn	Glv	Ala		
161		·		U = 1		710				J	715	5			U -1	720		
	Ile	Ser	Asn	Phe	Glu		Phe	Gln	Lvs	Ala	-	Asn	Cvs	Pro	Pro			
163		-			725					730			o ₁ o		735			
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VERIFICATION SUMMARY DATE: 08/10/2006
PATENT APPLICATION: US/10/588,030 TIME: 20:03:20

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08102006\J588030.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing before editing (for reference only)



IFWP

RAW SEQUENCE LISTING DATE: 08/08/2006 PATENT APPLICATION: US/10/588,030 TIME: 09:18:48

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5 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated with

6 Phosphate Regulating Endopeptidase Homolog (PHEX)

8 <130> FILE REFERENCE: 004974.01208

C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/588,030

C--> 10 <141> CURRENT FILING DATE: 2006-08-01

10 <160> NUMBER OF SEQ ID NOS: 5

12 <170> SOFTWARE: PatentIn version 3.2

ERRORED SEQUENCES

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190 <211> LENGTH: 29

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195 <223> OTHER INFORMATION: probe

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VERIFICATION SUMMARYDATE: 08/08/2006PATENT APPLICATION: US/10/588,030TIME: 09:18:49

Input Set : A:\004974.01208 sequence listing.txt

Output Set: N:\CRF4\08082006\J588030.raw

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:198 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:32 SEQ:5 L:198 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:6 L:198 M:252 E: No. of Seq. differs, <211> LENGTH:Input:29 Found:32 SEQ:5